

Abstract

Optoelectronic Angle Measuring Instrument And Method For Its Production

An optoelectronic angle measuring instrument, and method for its production, which optoelectronically detects the angle of rotation of an input shaft by means of a dimensional standard connected to the shaft. Light from a light source is parallel-collimated by a collimator lens, modulated by the dimensional standard, and detected by a sensor receiver. The light transmitter, the collimator lens, the dimensional standard and the sensor receiver are arranged concentrically, so that the axis of rotation substantially coincides with the optical axis. At least an end portion of the shaft, as the mechanical component, and the refractive collimator lens, as the optical component of the angle measuring instrument, are made from a single plastic part which accommodates the light source and additional electronic components.

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